

Title (en)

Signal structure and scrambling for multicarrier transmission

Title (de)

Signalstruktur sowie Verschachtelung für Mehrträgerübertragung

Title (fr)

Structure de signal et embrouillage pour la transmission multiporteuse

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Application

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Priority

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Abstract (en)

A transmitting system wherein a transmission signal composed of main data (Dt) and a TMCC signal having a SYNC pattern indicating the header portion and a bit pattern indicating setting information of the main data (Dt) is transmitted and received. In the transmitting apparatus, the reference timing for starting the input data scramble process is rendered to coincide substantially with the modulation timing for modulating the scrambled data and generating the main data (Dt), and the modulation timing is rendered to coincide substantially with the timing for generating the TMCC signal thereby to generate the TMCC signal. From the transmission signal, the receiving apparatus demodulates the main data, extracts the SYNC pattern indicating the header portion from the TMCC signal and inversely scrambles the main data based on the extracted SYNC pattern.

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